

CERTIFICATE OF QUALITY R 114900

Report N	799-14
Cargo	FUEL OIL LSFO-180
Seal N	15061948; A1800718
Lab sample N	1070-14
Sample's type	Ship manifold

Client	SMTECH SHIP Management Co. Ltd /R 114900
Vessel's name	PEWEE / OBERON TRANZIT DV
Sampled by	Provided by client
Sample delivered	07/10/14
Sample tested	08/10/14

No	TEST	Method	Unit	Result
1	Density at 15 °C	ASTM D 1298	g/ml	0.9433
2	Viscosity at 50 °C	ASTM D 445	mm ² /c	129.6
3	Water content	ASTM D 95	% vol	0.10
4	Sulphur content	ASTM D 4294	% mass	1.04
5	Flash point (PMCC)	ASTM D 93(B)	°C	120.0
6	Ash content	ASTM D 482	% mass	0.018
7	Pour Point	ASTM D 97	°C	Plus 12
8	Total sediment potential	IP 390 (A)	% mass	0.01
9	Micro Carbon Residue	ASTM D 4530	% mass	6.42
10	Vanadium	IP 470	mg/kg	24
11	Aluminum	IP 470	mg/kg	8
12	Silicon	IP 470	mg/kg	13
13	Zinc	IP 470	mg/kg	2
14	Calcium	IP 470	mg/kg	3
15	Phosphorus	IP 500	mg/kg	0.6

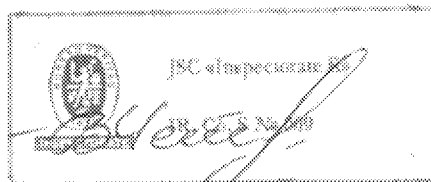
The results of analysis are applied only on the sample as received.

"Precision parameters apply in the determination of above test results. Also refer to ASTM D 3244-90ae1, IP 367-94 and appendix "E" of IP Standard Method for analyses and testing for utilization of test data to determine conformance with specifications".

This Tests Report is issued in accordance with the Inspectorate Standard Terms and Conditions of Business (2002).

Inspectorate Oil Division

Chief manager
Nakhodka branch
Date



Chetverikov V.V.
08/10/14